

2.7.2 Sol-REG Assembly and Test

All assembly drawing information is on the PC board.

- (✓) Step 10. Visually check Sol-REG board for solder bridges (shorts) between traces, broken traces and similar defects.

If visual inspection reveals any defects, return the board to Processor Technology for replacement. If the board is not defective, proceed to next paragraph.

- (✓) Step 11. Install the following resistors in the indicated locations. Bend leads to fit distance between mounting holes, insert leads, pull down snug to board, solder and trim.

| <u>LOCATION</u> | <u>VALUE (ohms)</u> | <u>COLOR CODE</u> |
|-----------------|---------------------|------------------------|
| (✓) R1 | .1 | none |
| (✓) R2 | 330 | orange-orange-brown |
| (✓) R3 | 10 K | brown-black-orange |
| (✓) R4 | 10 K | " " " |
| (✓) R5 | 1 K | brown-black-red |
| (✓) R6 | 68 | blue-gray-black |
| (✓) R7 | 10 K | brown-black-orange |
| (✓) R8 | 1 K | brown-black-red |
| (✓) R9 | 56 K | green-blue-orange |
| (✓) R10 | 10 K | brown-black-orange |
| (✓) R11 | 1690 | brown-blue-white-brown |
| (✓) R12 | 4020 | yellow-black-red-brown |

- (✓) Step 12. Install U2 (1458CPI) in its location between C2 and C3. U2 is positioned with pin 1 in the lower left-hand corner and soldered into place. See "Loading DIP Devices" in Appendix IV.

- (✓) Step 13. Install diodes D1 (1N5231B), D2 (1N4148), D3 and D4 (1N4001). Bend leads to fit distance between mounting holes, insert leads, pull down snug to board, solder and trim. BE SURE to position D1 with its cathode (dark band) to the left, D2 and D3 with their cathode at the bottom, and D4 with its cathode at the top.

- (✓) Step 14. Install the following capacitors in the indicated locations. Take care to observe the proper value, type and orientation, if applicable, for each installation. Bend leads outward on solder (back) side of board, solder and trim.

(See NOTE on Page II-11.)